

## REMARKS

In response to the Office Action dated July 5, 2007, Applicant respectfully requests reconsideration based on the above amendments and the following remarks. Applicant respectfully submits that the claims as presented are in condition for allowance.

Claims 1-5, 7-10, 13-15 and 18-22 are pending in the present Application. Claim 1 is amended and Claim 26 is added, leaving Claims 1-5, 7-10, 13-15, 18-22 and 26 for consideration upon entry of the present amendment and following remarks.

Support for the claim amendments is at least found in the specification, the figures, and the claims as originally filed. Support for amended Claim 1 is at least found at Page 12, lines 4-12 of the “substitute specification-clean” filed on April 23, 2007. Claim 1 is further amended to correct an inadvertent typographical error and to provide proper antecedent basis for “the second display signal wire.” Support for Claim 26 is at least found in originally filed Claim 7 and at Page 12, lines 4-12 of the “substitute specification-clean” filed on April 23, 2007.

Reconsideration and allowance of the claims are respectfully requested in view of the above amendments and the following remarks.

### Response to Amendment

It is alleged on Pages 2 and Page 7 (Item A.) of the Office action that applicants do not mention how signals are transmitted to a “first driving signal wire” in Claim 1, such as from the internal IC or from outside through wire ‘320 in Fig. 6. The Examiner has therefore stated that Claim 1 is rejected in the instant Office action based on “signal transmitting to a first driving signal wire from the internal IC.” For purpose of clarification, Applicant provides the following.

On Page 12, lines 4-12 of the “substitute specification-clean” filed on April 23, 2007, for a non-limiting embodiment:

“Meanwhile, the driving voltage generator 700 generates the gate-on voltage  $V_{on}$  and the gate-off voltage  $V_{off}$ , while the gray voltage generator 800 generates a plurality of gray voltages and accordingly applies them to the data driver 500.

During this, signals such as the gate clock signal CPV and the output enable signal OE, included in the gate control signal CONT1, are supplied in parallel to the gate driving ICs 440 through the signal lines 524 and 324 and subsequently through the contact portions C3. Signals such as the vertical synchronization start signal STV are

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supplied to the first gate driving IC 440 through the signal lines 523 and 323a and subsequently through the contact portion C3.

In addition, the gate-off voltage  $V_{off}$  and the ground voltage are supplied in parallel to the gate driving ICs 440 through the signal lines 521, 321, 522 and 322 and the contact portions C3.”

As described above and recited in amended Claim 1, driving signals are transmitted *from an outside*, through the signal lines 521 and 321, through contact portions C3, and *to* the ICs 440. Similarly, driving signals are transmitted from *an outside*, through the signal lines 522 and 322, through contact portions C3, and *to* the ICs 440.

Further, on Page 12, lines 4-12 of the “substitute specification-clean” filed on April 23, 2007, for a non-limiting embodiment:

“...when the liquid crystal panel assembly 300 is manufactured, an edge grinding process that eliminates unnecessary portions of the liquid crystal panel assembly 300 is performed along the cutting line EG (see, FIGS. 3A and 3B). By this procedure, *the shorting bar 320 is also eliminated...*”

After manufacturing and eliminating of the shorting bar 320, the liquid crystal panel assembly 300 is tested. (See, Page 16, line 16 to Page 17, line 8.) That is, driving signals are not transmitted through the shorting bar 320.

Therefore, as described in the specification and illustrated in the figures, Applicant respectfully submits that the “driving signals” of Claim 1 are transmitted *to* the “first display signal lines” from *an outside*, and through the separately disposed “first driving signal wire.”

### **Claim Rejections Under 35 U.S.C. §102**

The Examiner has rejected Claims 1–5, 7–15 and 18–22 under 35 U.S.C. 102(b) as being allegedly anticipated by Imajo et al., U.S. Patent Publication No. 2001/0015709 (hereinafter “Imajo”). Applicant respectfully traverses the rejections. Applicant notes that Claims 11 and 12 are cancelled. Therefore, for purpose of this response, Applicant understands Claims 1–5, 7–10, 13–15 and 18–22 as being rejected under 35 U.S.C. 102(b) as being allegedly anticipated by Imajo.

To anticipate a claim under 35 U.S.C. § 102, a single source must contain all of the elements of the claim. *Lewmar Marine Inc. v. Barient, Inc.*, 827 F.2d 744, 747, 3 U.S.P.Q.2d

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1766, 1768 (Fed. Cir. 1987), cert. denied, 484 U.S. 1007 (1988). Moreover, the single source must disclose all of the claimed elements “arranged as in the claim.” *Structural Rubber Prods. Co. v. Park Rubber Co.*, 749 F.2d 707, 716, 223 U.S.P.Q. 1264, 1271 (Fed. Cir. 1984).

Amended Claim 1 recites, *inter alia*,

“a first driving signal wire transmitting driving signals *from an outside of the display panel to first display signal lines*, wherein the first driving signal wire is disposed separated from the first and second display signal wires, the switching elements, and the pixel electrodes, and includes a first pad connected thereto at its near end

a plurality of first connecting lines disposed between the first driving signal wire and a part of the first display signal wire, and connected to the first driving signal wire,

wherein the first connecting lines are electrically disconnected from the part of the first display signal wire.”

In the detailed action in the Office action at Pages 3 and 7 (Response to Arguments), and as indicated in Attachment 2, the left vertical drain line DL at the right hand side of Attachment 2 is being considered as the “first *driving signal wire*” (however, labeled “first driving signal line”) of the claimed invention. This left vertical drain line DL does not transmit driving signals from an outside of the display panel to first display signal lines of amended Claim 1.

Furthermore, in Imajo and as indicated in Attachment 2 of the Office action, “the first driving signal wire” (i.e., “line”) and the “first connecting line” have a one to one connection through one pad. In a non-limiting embodiment of the present invention, the first driving signal wire and the *plurality* of the first connecting lines are connected in a one-to-many relationship. Additionally, the “pad” of Claim 1 is not used for the connection between the first driving signal wire and the first connecting line. Therefore, Imajo does not disclose a plurality of first connecting lines disposed between the first driving signal wire and a part of the first display signal wire, and connected to the first driving signal wire of amended Claim 1.

Thus Imajo fails to disclose all of the limitations of amended Claim 1. Accordingly, Imajo does not anticipate amended Claim 1. Applicant respectfully submits that Claim 1 is not further rejected or objected and is therefore allowable. Claims 2-5, 7-10, 13-15 and 18-22 variously depend from Claim 1 and are correspondingly allowable. Additionally, new Claim 26 depends from Claim 1 and is correspondingly allowable. Reconsideration, withdrawal of the relevant §102 rejections and allowance of Claims 1-5, 7-10, 13-15, 18-22 and 26 are respectfully requested.

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**Conclusion**

All of the objections and rejections are herein overcome. In view of the foregoing, it is respectfully submitted that the instant application is in condition for allowance. No new matter is added by way of the present Amendments and Remarks, as support is found throughout the original filed specification, claims and drawings. Prompt issuance of Notice of Allowance is respectfully requested.

The Examiner is invited to contact Applicant's attorney at the below listed phone number regarding this response or otherwise concerning the present application.

Applicant hereby petitions for any necessary extension of time required under 37 C.F.R. 1.136(a) or 1.136(b) which may be required for entry and consideration of the present Reply.

If there are any charges due with respect to this Amendment or otherwise, please charge them to Deposit Account No. 06-1130 maintained by Applicant's attorneys.

Respectfully submitted,

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